

## A Memetic Approach for the Max-Cut Problem

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R�sum� en anglais	The max-cut problem is to partition the vertices of a weighted graph $G = (V, E)$ into two subsets such that the weight sum of the edges crossing the two subsets is maximized. This paper presents a memetic max-cut algorithm (MACUT) that relies on a dedicated multi-parent crossover operator and a perturbation-based tabu search procedure. Experiments on 30 G-set benchmark instances show that MACUT competes favorably with 6 state-of-the-art max-cut algorithms, and for 10 instances improves on the best known results ever reported in the literature.
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